

ABDUL WADUD ALOM

QA Automation Engineer | Playwright, TypeScript, AI-Driven Testing & Telecom Protocol Testing

awalom.official@gmail.com | +91 8972466742 | Bengaluru, India | [LinkedIn](#) | [GitHub](#)

PROFILE SUMMARY

- Software QA Engineer with 4.6+ years of experience across the full SDLC/STLC, specializing in Playwright automation, agentic AI-assisted testing, and enterprise telecom protocol testing.
- Hands-on experience building end-to-end UI automation frameworks using Playwright with Page Object Model (POM) architecture, Cucumber BDD, and TypeScript/JavaScript, integrated into Jenkins CI/CD pipelines for continuous regression.
- Early adopter of Playwright's built-in AI agents — **Planner, Generator, and Healer** — to accelerate test case creation, auto-generate test scripts, and self-heal broken locators, alongside MCP (Model Context Protocol) server integration with **GitHub Copilot** for AI-assisted script development.
- Strong manual testing foundation: functional, regression, smoke, sanity, integration, and API testing, complemented by SIP protocol validation (SIPp), Diameter stack testing (Gx/Rx/Sy/S6a), and PCAP analysis via Wireshark.
- Delivered zero-defect releases for global enterprise clients including SoftBank, TPx (TelePacific), and KDDI.
- Effective team player, self-motivated, and quick to adapt to new automation tooling and technologies.

KEY IMPACT AREAS

- Playwright, TypeScript, JavaScript, Page Object Model (POM), Cucumber BDD (Gherkin)
- Playwright AI Agents (Planner, Generator, Healer), MCP Server Integration – GitHub Copilot
- Jenkins CI/CD Pipeline Integration, Allure Reporting, Git/GitHub
- SIP Protocol Testing (SIPp, RFC 3261), Diameter Protocol Testing (Gx/Rx/Sy/S6a, RFC 6733)
- API Testing (SOAP UI, REST/SOAP), Performance & Load Testing (JMeter, Seagull)
- JIRA Defect Tracking, Agile/Scrum Delivery

AUTOMATION SKILLS

Framework & Architecture

- Built an end-to-end web/UI automation framework using Playwright with Page Object Model (POM) in TypeScript/JavaScript
- Designed reusable page objects and helper utilities to reduce code duplication across test suites
- Implemented BDD test scenarios using Cucumber, producing business-readable feature files aligned to acceptance criteria
- Leveraged Playwright's built-in AI agents — **Planner** for test-plan generation, **Generator** for autoauthoring test scripts from natural-language scenarios, and **Healer** for self-healing broken locators — to speed up framework development and cut maintenance overhead
- Configured GitHub Copilot as an MCP server within the automation workflow to assist with script scaffolding, code review, and faster debugging

Script Development & Regression Maintenance

- Developed new Playwright/TypeScript automation scripts from scratch for evolving feature requirements
- Executed automation scripts across local, CI, and cross-browser environments; triaged failures and logged defects in JIRA
- Maintained and refactored the regression test suite on an ongoing basis to keep pace with application changes and eliminate flaky tests

CI/CD & Reporting

- Integrated the Playwright + Cucumber automation suite into the team's existing Jenkins CI/CD pipeline, enabling automated regression testing on every build
- Configured Allure Reports for step-level test reporting, screenshots on failure, and trend analysis dashboards
- Managed the automation codebase on Git/GitHub, following branching strategy and pull request workflows for collaborative Agile development

Quality & Process

- Created API and Feature Provisioning Automation sheets using SOAP payloads — reduced manual provisioning effort by ~40%
- Performed root cause analysis on automation failures and underlying protocol-level issues
- Collaborated with developers and business analysts in Agile/Scrum sprint cycles to align test coverage with acceptance criteria

PROFESSIONAL EXPERIENCE

Telaverge Communication Pvt. Ltd.

Software QA Engineer — Manual & Automation Testing | Nov 2021 – May 2026

TNS Service Node (SoftBank) — ATF Apps

Feb 2024 – Mar 2026

Playwright · POM · Cucumber · TypeScript · JavaScript · Playwright AI Agents (Planner/Generator/Healer) · GitHub

Copilot MCP · Allure Reports · Jenkins · SIP · SIPp · SOAP UI · JMeter · GitHub

- Built an end-to-end web/UI automation framework using Playwright with Page Object Model (POM) in TypeScript/JavaScript.
- Implemented BDD test scenarios using Cucumber, producing business-readable feature files aligned to ATF acceptance criteria.
- Adopted Playwright's Planner, Generator, and Healer AI agents alongside a GitHub Copilot MCP server to accelerate script development and reduce locator-maintenance effort.
- Developed, executed, and maintained the automation regression suite across sprint cycles, ensuring stable, up-to-date coverage as features evolved.
- Integrated the Playwright + Cucumber automation suite into the Jenkins CI/CD pipeline, enabling automated regression testing on every build.
- Configured Allure Reports for rich test reporting with step-level details, screenshots on failure, and trend analysis dashboards.
- Managed the automation codebase on Git/GitHub, following branching strategy and pull request workflows for collaborative Agile development.
- Designed and executed manual test cases/ATPs for 20+ ATF features, validating call flows including Call Rejection, ACD, Call Queuing, Call Forwarding, and Number Portability.
- Performed B2B and ACD Round Robin load tests at 130 CPS; authored formal Performance Test Reports.
- Validated REST/SOAP APIs via SOAP UI as part of API testing; wrote JMeter scripts for API performance testing.
- Created API Provisioning and Feature Provisioning Automation Sheets using SOAP payloads — reduced manual effort by ~40%.

TNS TelePacific (TPx) — NGIN Apps

Mar 2026 – May 2026

SIP · SIPp · Jenkins · Wireshark

- Prepared ATP (test cases/test plans) for STIR/SHAKEN change request; performed manual functional testing of NGIN features including DNIS, CAS, and BPN.
- Wrote SIPp scripts for feature simulation; validated SIP call flows using Wireshark PCAP analysis as part of regression testing.
- Created test data suites executed through the Jenkins CI/CD pipeline for repeatable regression runs.
- Debugged failed calls via CAS logs; verified CDRs against FSD documents for billing and compliance accuracy.

Diameter Stack Testing

Mar 2023 – Feb 2024

Diameter (Gx/Rx/Sy/S6a) · Seagull · TCP · SCTP

- Authored Seagull simulation scripts from scratch per RFC-6733 and 3GPP specifications.
- Validated Diameter protocol across Gx, Rx, Sy, and S6a interfaces through manual and scripted load testing.
- Analyzed protocol behavior and performed root cause analysis on Diameter stack failures.

NN ELK — Performance & Monitoring

Nov 2022 – Mar 2023

Elasticsearch · Kibana · Logstash · Diameter · SS7

- Designed and executed performance test scripts; built KPI dashboards in Kibana.
- Analyzed Elasticsearch/Logstash pipelines to identify bottlenecks; reported findings per FSD.

KDDI VPN / ATF — Integration & Unit Testing

Nov 2021 – Nov 2022

SIP · ISUP · ADE · CAS Platform · PL/SQL

- Developed ADE modules and PL/SQL stored procedures for telecom feature delivery.
- Performed manual unit and integration testing using SIPp and X-lite on CAS platform.
- Reviewed FSDs and designed test cases aligned to design specifications, following SDLC/STLC best practices.

KEY ACHIEVEMENTS

-
- Built and integrated a Playwright + Cucumber + TypeScript automation framework into Jenkins CI/CD, enabling automated regression on every build.
 - Adopted Playwright's Planner, Generator, and Healer AI agents together with a GitHub Copilot MCP server to speed up script authoring and reduce test-maintenance effort.
 - Developed and maintained the full regression automation suite across releases, keeping coverage current as features evolved.
 - Automated SOAP API provisioning — cut manual provisioning effort by ~40% across 2 project phases.
 - Created multiple SIPp scripts across 3 major telecom projects with zero critical escapes post-release.
 - Sustained a 130 CPS B2B call load test; performance report accepted by client with zero rework.
 - Designed Seagull Diameter scripts independently from RFC-6733 and 3GPP specs with no existing templates.
 - Executed 300+ manual and automated test cases through the Jenkins CI/CD pipeline for API regression and SIPp call validation.
 - Maintained rigorous defect tracking and triage discipline via JIRA across all Agile/Scrum project cycles.

TECHNICAL SKILLS

-
- **Automation Stack:** Playwright, Playwright AI Agents (Planner, Generator, Healer), Cucumber BDD, TypeScript, JavaScript, Page Object Model (POM), Allure Reports
 - **AI-Assisted Development:** MCP (Model Context Protocol), GitHub Copilot (MCP server), AI-driven script generation & self-healing
 - **Testing Types:** Manual & Automation Testing, Functional, Regression, Smoke, Sanity, Performance, Load, Integration, Unit, API Testing, RCA
 - **Protocols:** SIP (RFC 3261), Diameter (RFC 6733) – Gx, Rx, Sy, S6a, SS7, ISUP, TCP, SCTP
 - **Testing Tools:** SIPp, JMeter, Seagull, SOAP UI, Wireshark, X-lite
 - **CI/CD & Version Control:** Jenkins CI/CD Pipeline, Git, GitHub (branching strategy, pull requests)
 - **Defect Tracking & Methodologies:** JIRA, SDLC, STLC, Agile/Scrum, ATP/FSD Documentation
 - **Monitoring / Logs:** Elasticsearch, Kibana, Logstash (ELK Stack), CAS Log Analysis, PCAP Analysis
 - **Telecom Domains:** IMS, VoLTE, STIR/SHAKEN, Diameter Stack, SIP
 - **Programming / DB:** JavaScript, TypeScript, Java, SQL, PL/SQL
 - **OS / Standards:** Linux, Windows | 3GPP Specifications, RFC-6733

EDUCATIONAL QUALIFICATION

- Master of Computer Application (MCA) — 2020
- Bachelor of Computer Application (BCA) — 2016
- Higher Secondary (10+2) — 2012
- Secondary Examination (10th) — 2010

LANGUAGES

English (Fluent) | Bengali (Native) | Hindi (Conversational)